

AD-A087 643

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/6 4/2
12819A LANCE, MISSILE NUMBER 3974, ROUND NUMBER 350 ECL, 17 JUN--ETC(U)
JUN 80

UNCLASSIFIED

ERADCOM/ASL-DR-1151

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1 of 1
AD-A087 643



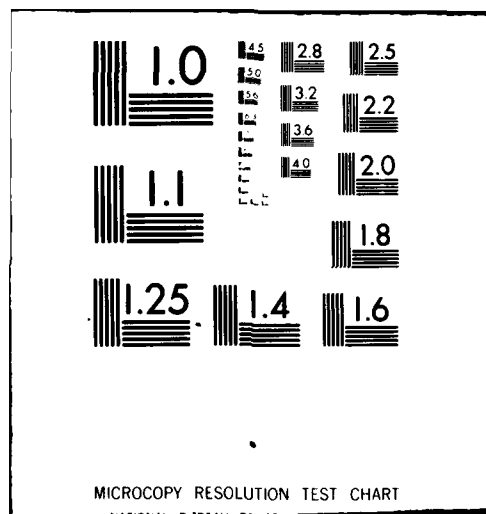
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9 METEOROLOGICAL DATA

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White Sands Meteorological Team

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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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On 11/11/68, the above named subject was arrested at his residence in the City of New York, New York, and was taken to the New York City Jail, New York, New York, where he was held in custody. He was released on bail of \$10,000.00, to appear in Court on 11/15/68. He was released on bail of \$10,000.00, to appear in Court on 11/15/68. He was released on bail of \$10,000.00, to appear in Court on 11/15/68.

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 12819A LANCE, Missile Number 3974, Round Number 350 ECL, presented in tabular form.		

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INTRODUCTION

12819A LANCE, Missile Number 3974, Round Number 350 ECL,
was launched from Spec Site, White Sands Missile Range (WSMR), New Mexico,
at 0821:38 MDT on 17 June 1980. The scheduled launch time was
0800 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team. Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), Wind direction and speed, and cloud cover were made at the Spec Site Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from single theodolite pibal observations at:

SITE AND ALTITUDE

Spec 8000 ft AGL

Spec 12000 ft AGL

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to as high as possible feet in 500-foot increments.

SITE AND TIME

Jallen 0430 MDT

Stallion 0830 MDT

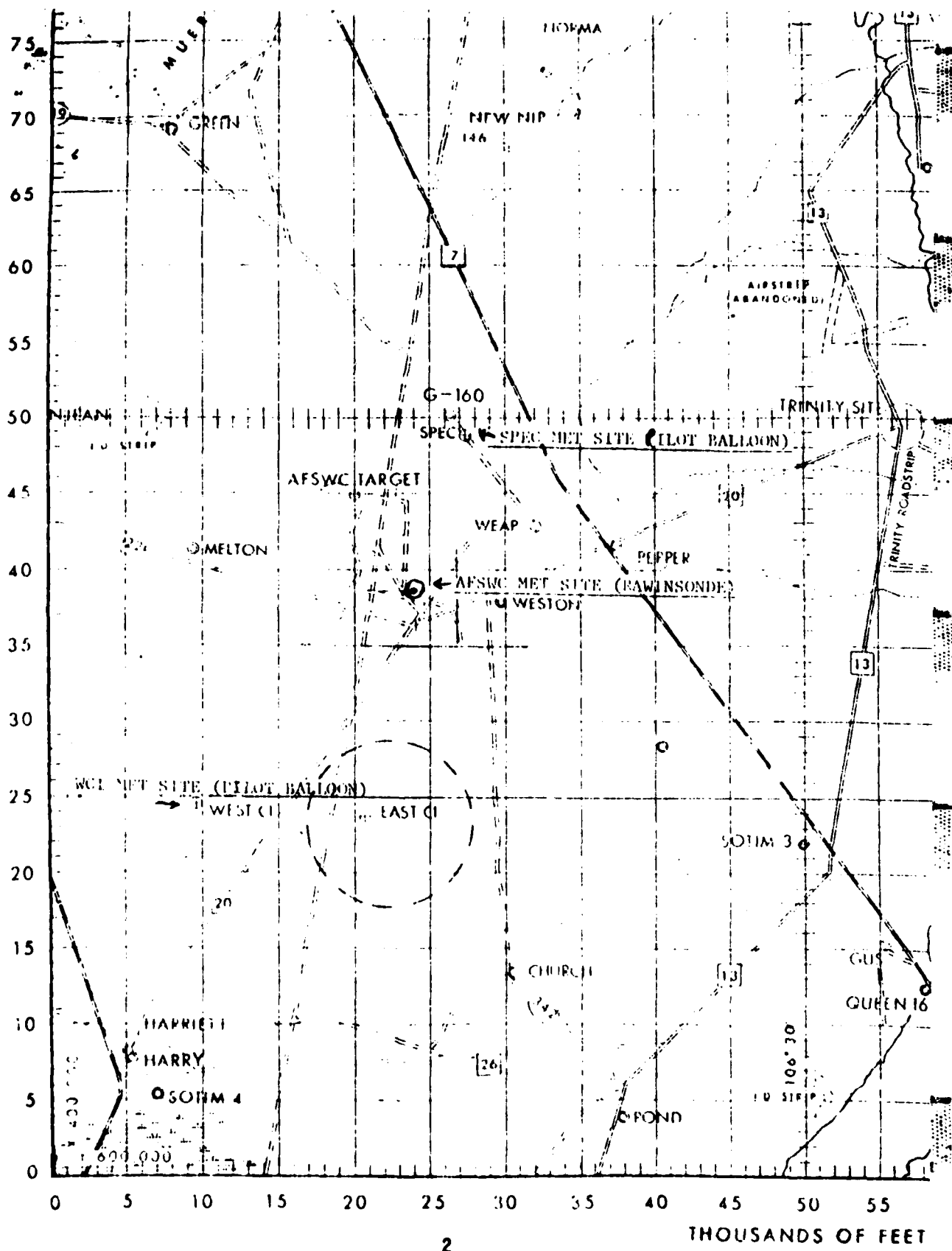


TABLE 1. Surface Observations taken at 0800 MDT,
17 June 1980, at Spec Site, 12819A LANCE,
Missile Number 3974, Round Number 350 ECL.

ELEVATION	no survey	FT/MSL
PRESSURE	857.9	MBS
TEMPERATURE	22.1	°C
RELATIVE HUMIDITY	52	%
DEW POINT	11.8	°C
DENSITY	1004	GM/M ³
WIND SPEED	02	KTS
WIND DIRECTION	075	DEGREES
CLOUD COVER	3	AC

PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM Spec Site DATE 17 June 1980 TIME 0750 MDT

COORDINATES (WSTM) X= no survey Y= H=

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL OR FEET AGL X.

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
sfc	035	calm
100	035	02
200	035	03
300	040	04
400	040	04
500	045	04
600	050	05
700	050	05
800	055	05
900	060	06
1000	060	06
1100	065	07
1200	065	07
1300	065	07
1400	065	07
1500	065	07
1600	070	07
1800	070	07
1900	070	07
2000	070	07
2100	075	07
2200	075	07
2300	075	07
2400	070	07
2500	070	08
2600	065	09
2700	065	09
2800	060	10
2900	060	11
3000	055	11
3100	055	11

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
3200	050	12
3300	050	12
3400	045	13
3500	045	13
3600	045	14
3700	040	14
3800	040	15
3900	040	15
4000	040	16
4100	040	16
4200	035	17
4300	035	17
4400	035	18
4500	035	18
4600	035	18
4700	035	18
4800	035	18
4900	035	18
5000	035	17
5100	035	17
5200	035	17
5300	035	17
5400	035	17
5500	035	17
5600	035	17
5700	035	16
5800	035	16
5900	035	15
6000	035	14
6100	035	14
6200	030	13

[illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM Spec Site DATE 17 June 1980 TIME 0800 MDT

COORDINATES (WSTM) X= no survey Y= II=

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL OR FEET AGL .

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
sfc	075	02
100	075	02
200	080	02
300	080	02
400	085	03
500	085	03
600	090	03
700	090	03
800	090	03
900	095	04
1000	095	04
1100	100	04
1200	100	04
1300	100	04
1400	100	04
1500	105	04
1600	105	04
1700	105	04
1800	105	04
1900	105	04
2000	110	04
2100	110	04
2200	110	04
2300	110	04
2400	105	04
2500	100	05
2600	95	05
2700	90	05
2800	85	06
2900	80	06
3000	70	06

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
3100	065	07
3200	060	07
3300	055	08
3400	050	08
3500	045	08
3600	045	09
3700	045	09
3800	045	10
3900	045	10
4000	040	10
4100	040	11
4200	040	12
4300	040	12
4400	040	12
4500	040	13
4600	040	13
4700	040	13
4800	035	13
4900	035	13
5000	035	12
5100	035	12
5200	035	12
5300	030	12
5400	030	12
5500	030	12
5600	030	12
5700	030	11
5800	030	11
5900	025	10
6000	025	10
6100	025	09

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
6100	025	09
6200	025	08
6300	025	08
6400	025	07
6500	020	07
6600	020	06
6700	015	06
6800	010	06
6900	360	06
7000	350	05
7100	340	05
7200	330	05
7300	320	05
7400	310	05
7500	300	05
7600	290	05
7700	225	05
7800	225	05
7900	230	06
8000	230	06
8100	235	07
8200	235	08
8300	240	08
8400	240	09
8500	245	09
8600	250	10
8700	250	11
8800	250	11
8900	250	11
9000	255	12
9100	255	12

RELEASED FROM Spec Site DATE 17 June 1980

TIME 0800 MDT

[illegible][illegible][illegible]

STATION ALTITUDE 4051.00 FEET MSL
17 JUNE 80
ASCENSION NO. 163

SIGNIFICANT LEVEL DATA
1690030163
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 4.

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
875.8	19.1	2.5	33.0
850.0	26.5	13.9	46.0
820.6	27.4	7.3	28.0
766.0	25.0	-2	19.0
700.0	18.7	-4.7	20.0
565.0	2.9	-10.0	38.0
500.0	-6.1	-11.0	68.0
492.7	-7.1	-11.4	71.0
447.5	-13.6	-18.0	69.0
440.3	-12.4	-31.7	18.0
428.2	-13.1	-32.9	17.0
400.0	-16.4	-35.7	17.0
300.0	-32.7	-48.4	19.0
293.4	-33.7	-49.2	19.0
250.0	-42.1		
230.0	-47.6		
200.0	-50.1		
164.6	-59.8		
150.0	-62.3		
124.8	-68.4		
121.4	-67.9		
103.2	-70.9		
100.0	-72.4		
81.4	-74.7		
70.0	-66.6		
61.4	-65.8		
58.4	-61.7		
54.4	-62.7		
50.0	-59.1		

STATION ALTITUDE 4051.00 FEET MSL
17 JUNE 80
ASCENSION NO. 163

UPPER AIR DATA
1690030163
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 5.

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	875.8	19.1	33.0	1040.7	667.0	360.0	2.9	1.000264
4500.0	862.2	23.0	39.8	1009.3	672.1	9.4	3.2	1.000273
5000.0	847.3	26.6	44.4	978.0	676.8	17.9	3.6	1.000283
5500.0	832.8	27.0	35.5	960.9	676.9	24.7	4.0	1.000268
6000.0	818.6	27.3	27.7	944.7	676.9	30.0	4.5	1.000253
6500.0	804.5	26.7	25.4	930.8	676.0	19.9	3.9	1.000245
7000.0	790.7	26.1	23.2	917.1	675.2	335.9	3.1	1.000238
7500.0	777.2	25.5	20.9	903.5	674.4	318.1	4.1	1.000230
8000.0	763.8	24.8	19.0	890.4	673.5	317.1	5.2	1.000224
8500.0	750.5	23.6	19.2	878.7	672.0	307.1	5.2	1.000220
9000.0	737.5	22.3	19.4	867.1	670.6	294.0	5.2	1.000216
9500.0	724.6	21.1	19.6	855.6	669.1	281.6	5.1	1.000212
10000.0	712.0	19.9	19.8	844.4	667.7	269.2	5.1	1.000208
10500.0	699.6	18.7	20.0	833.2	666.3	256.1	5.1	1.000205
11000.0	686.9	17.3	21.6	821.9	664.7	245.1	5.4	1.000202
11500.0	674.5	16.0	23.1	810.8	663.2	238.6	7.1	1.000200
12000.0	662.3	14.6	24.7	799.9	661.6	240.0	8.8	1.000197
12500.0	650.3	13.3	26.2	789.1	660.1	249.9	10.9	1.000194
13000.0	638.6	11.9	27.7	778.5	658.5	254.6	12.9	1.000192
13500.0	627.0	10.6	29.3	768.1	657.0	256.3	14.7	1.000189
14000.0	615.7	9.2	30.8	757.9	655.4	248.5	16.4	1.000186
14500.0	604.5	7.9	32.3	747.8	653.8	238.9	18.7	1.000183
15000.0	593.6	6.5	33.9	737.8	652.2	228.6	20.8	1.000180
15500.0	582.9	5.2	35.4	728.0	650.6	219.9	23.4	1.000178
16000.0	572.3	3.8	36.9	718.4	649.0	210.1	25.7	1.000175
16500.0	561.8	2.5	39.4	708.7	647.4	202.9	28.5	1.000172
17000.0	551.2	1.1	44.1	698.8	645.8	205.5	30.2	1.000170
17500.0	540.8	-0.3	48.7	689.1	644.1	208.8	31.7	1.000168
18000.0	530.6	-1.7	53.4	679.6	642.5	215.6	32.8	1.000166
18500.0	520.5	-3.1	58.1	670.2	640.8	220.3	33.5	1.000164
19000.0	510.7	-4.5	62.8	661.0	639.1	222.2	33.1	1.000162
19500.0	501.1	-5.9	67.5	651.9	637.5	226.2	32.6	1.000159
20000.0	491.4	-7.3	70.9	642.6	635.8	232.9	32.3	1.000157
20500.0	481.8	-8.6	70.5	633.4	634.2	238.9	32.5	1.000153
21000.0	472.4	-9.9	70.1	624.2	632.6	244.7	33.2	1.000150
21500.0	463.2	-11.3	69.7	615.3	630.9	249.4	33.6	1.000147
22000.0	454.1	-12.6	69.3	606.4	629.3	253.2	33.7	1.000144
22500.0	445.2	-13.2	53.1	596.2	628.4	256.6	33.5	1.000139
23000.0	436.5	-12.6	17.7	583.4	628.9	259.9	32.9	1.000132
23500.0	427.9	-13.1	17.0	573.1	628.3	262.3	32.3	1.000130

STATION ALTITUDE 4051.00 FEET MSL
17 JUNE 80
ASCENSION NO. 163

UPPER AIR DATA
1690030163
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 5 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
24000.0	419.5	-14.1	17.0	563.8	627.1	263.8	31.6	1.000128
24500.0	411.0	-15.1	17.0	554.7	625.9	264.4	30.8	1.000125
25000.0	402.6	-16.1	17.0	545.7	624.7	263.9	29.7	1.000123
25500.0	394.6	-17.2	17.1	536.9	623.4	262.7	28.5	1.000121
26000.0	386.5	-18.3	17.2	528.3	621.9	260.7	27.3	1.000119
26500.0	378.5	-19.5	17.4	519.8	620.5	259.3	27.1	1.000117
27000.0	370.7	-20.7	17.5	511.5	619.0	258.2	27.5	1.000115
27500.0	363.0	-21.9	17.7	503.3	617.6	256.0	28.2	1.000113
28000.0	355.6	-23.1	17.8	495.2	616.1	253.6	29.0	1.000111
28500.0	348.2	-24.3	18.0	487.3	614.7	251.8	30.3	1.000109
29000.0	341.0	-25.4	18.1	479.5	613.2	250.3	31.7	1.000108
29500.0	334.0	-26.6	18.3	471.9	611.7	250.3	34.3	1.000106
30000.0	327.1	-27.8	18.4	464.4	610.3	250.4	36.4	1.000104
30500.0	320.5	-29.0	18.5	457.0	608.8	250.9	35.9	1.000102
31000.0	313.7	-30.2	18.7	449.7	607.3	251.5	35.1	1.000101
31500.0	307.5	-31.3	18.8	442.6	605.8	252.1	33.3	1.000099
32000.0	300.9	-32.5	19.0	435.6	604.3	252.7	32.3	1.000098
32500.0	294.5	-33.5	19.0	428.1	603.1	252.8	33.6	1.000096
33000.0	288.1	-34.7	16.8**	420.8	601.7	252.9	34.9	1.000094
33500.0	281.8	-35.8	14.2**	413.7	600.2	253.0	36.0	1.000092
34000.0	275.7	-37.0	11.6**	406.6	598.7	253.2	37.0	1.000091
34500.0	269.7	-38.1	9.0**	399.7	597.3	253.7	37.5	1.000089
35000.0	263.8	-39.3	6.4**	393.0	595.8	254.1	38.0	1.000088
35500.0	258.2	-40.4	3.8**	386.3	594.3	254.7	38.6	1.000086
36000.0	252.4	-41.6	1.2**	379.8	592.8	255.2	39.2	1.000085
36500.0	246.8	-42.9		373.5	591.1	255.7	40.0	1.000083
37000.0	241.5	-44.4		367.5	589.2	256.2	40.9	1.000082
37500.0	235.9	-45.9		361.7	587.2	256.7	41.0	1.000081
38000.0	230.6	-47.4		355.9	585.3	257.1	41.0	1.000079
38500.0	225.5	-48.0		348.6	584.6	257.4	40.0	1.000078
39000.0	220.2	-48.4		341.3	584.1	257.6	38.8	1.000076
39500.0	215.2	-48.8		334.1	583.5	259.3	34.7	1.000074
40000.0	210.5	-49.2		327.1	583.0	262.0	30.0	1.000073
40500.0	205.4	-49.6		320.2	582.5	263.7	23.8	1.000071
41000.0	200.8	-50.0		313.5	581.9	266.1	17.3	1.000070
41500.0	196.1	-51.1		307.6	580.5	258.8	13.9	1.000069
42000.0	191.5	-52.3		302.0	579.0	245.4	11.8	1.000067
42500.0	187.0	-53.5		296.5	577.4	233.2	12.2	1.000066
43000.0	182.6	-54.6		291.1	575.9	226.7	14.2	1.000065
43500.0	178.5	-55.8		285.8	574.3	224.2	16.3	1.000064

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
17 JUNE 80
ASCENSION NO. 163

UPPER AIR DATA
1690030163
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 5 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
44000.0	174.1	-57.0		280.6	572.8	227.5	18.2	1.000062
44500.0	170.0	-58.2		275.6	571.2	230.3	20.2	1.000061
45000.0	166.1	-59.4		270.6	569.6	232.4	21.6	1.000060
45500.0	162.1	-60.2		265.2	568.5	234.2	23.1	1.000059
46000.0	158.2	-60.9		259.6	567.6	234.5	24.2	1.000058
46500.0	154.4	-61.5		254.1	566.7	233.0	24.9	1.000057
47000.0	150.6	-62.2		248.8	565.9	231.8	25.6	1.000055
47500.0	147.0	-63.0		243.6	564.8	232.9	26.7	1.000054
48000.0	143.3	-63.8		238.5	563.7	233.9	27.9	1.000053
48500.0	139.8	-64.6		233.6	562.6	236.4	28.6	1.000052
49000.0	136.4	-65.5		228.7	561.4	239.1	29.2	1.000051
49500.0	133.0	-66.3		224.0	560.3	241.5	29.6	1.000050
50000.0	129.7	-67.1		219.4	559.2	243.2	28.9	1.000049
50500.0	126.5	-67.9		214.8	558.1	245.0	28.2	1.000048
51000.0	123.4	-68.2		209.8	557.7	247.3	26.9	1.000047
51500.0	120.3	-68.1		204.4	557.9	250.4	24.9	1.000046
52000.0	117.3	-68.5		199.7	557.3	254.0	22.9	1.000044
52500.0	114.4	-69.0		195.2	556.6	256.0	20.3	1.000043
53000.0	111.5	-69.5		190.7	556.0	258.0	17.5	1.000042
53500.0	108.7	-69.9		186.4	555.4	259.8	15.1	1.000041
54000.0	106.0	-70.4		182.1	554.7	257.6	14.5	1.000041
54500.0	103.3	-70.9		178.0	554.1	255.2	13.8	1.000040
55000.0	100.7	-72.1		174.5	552.4	253.4	13.1	1.000039
55500.0	98.1	-72.6		170.5	551.7	254.7	12.0	1.000038
56000.0	95.6	-72.9		166.4	551.3	256.2	10.9	1.000037
56500.0	93.2	-73.2		162.3	550.9	257.6	9.7	1.000036
57000.0	90.8	-73.5		158.4	550.5	258.0	8.2	1.000035
57500.0	88.5	-73.8		154.6	550.1	258.6	6.6	1.000034
58000.0	86.2	-74.1		150.9	549.7	259.8	5.1	1.000034
58500.0	84.0	-74.3		147.2	549.3	266.8	3.5	1.000033
59000.0	81.9	-74.6		143.7	548.9	284.3	2.0	1.000032
59500.0	79.8	-75.6		139.3	550.3	338.1	1.3	1.000031
60000.0	77.8	-72.3		134.9	552.2	16.2	2.3	1.000030
60500.0	75.8	-70.9		130.6	554.1	28.5	3.7	1.000029
61000.0	73.9	-69.5		126.4	555.9	31.9	4.8	1.000028
61500.0	72.0	-68.1		122.4	557.8	26.3	4.7	1.000027
62000.0	70.2	-66.8		118.5	559.7	20.6	4.7	1.000026
62500.0	68.5	-66.5		115.4	560.1	17.5	4.7	1.000026
63000.0	66.8	-66.3		112.5	560.3	17.5	5.0	1.000025
63500.0	65.2	-66.2		109.7	560.5	17.5	5.2	1.000024

STATION ALTITUDE 4051.00 FEET MSL
17 JUNE 80
ASCENSION NO. 163 0430 HRS MDT

UPPER AIR DATA
1690030163
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 5 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
64000.0	63.5	-66.0			106.9	560.7	27.3	7.0	1.000024
64500.0	62.0	-65.9			104.2	560.9	33.5	9.2	1.000023
65000.0	60.5	-64.5			101.0	562.7	33.6	12.6	1.000022
65500.0	59.0	-62.5			97.6	565.4	28.8	18.5	1.000022
66000.0	57.6	-61.4			94.9	566.2	26.3	24.5	1.000021
66500.0	56.2	-62.3			92.8	565.8	33.9	23.8	1.000021
67000.0	54.8	-62.6			90.7	565.3	47.6	21.4	1.000020
67500.0	53.5	-62.0			88.2	566.1			1.000020
68000.0	52.2	-60.9			85.7	567.5			1.000019
68500.0	50.9	-59.9			83.2	568.9			1.000019

STATION ALTITUDE 4051.00 FEET MSL
17 JUNE 80
ASCENSION NO. 163

MANDATORY LEVELS
1690030163
JALLEN

GEODETTIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 6.

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	4903.	26.5	13.9	46.	16.4	3.5	
800.0	6661.	26.5	4.7	25.	7.9	3.4	
750.0	8518.	23.5	-1.2	19.	306.5	5.2	
700.0	10474.	18.7	-4.7	20.	257.3	5.1	
650.0	12538.	13.2	-5.7	26.	250.7	11.1	
600.0	14723.	7.3	-7.9	33.	234.0	19.6	
550.0	17045.	.9	-9.8	45.	205.7	30.4	
500.0	19528.	-6.1	-11.0	68.	226.8	32.6	
450.0	22201.	-13.2	-17.7	69.	254.9	33.8	
400.0	25135.	-16.4	-35.7	17.	263.7	29.4	
350.0	28382.	-24.0	-41.5	18.	252.1	30.1	
300.0	32009.	-32.7	-48.4	19.	252.7	32.4	
250.0	36142.	-42.1			255.4	39.5	
200.0	40983.	-50.1			266.5	16.5	
175.0	43803.	-56.7			226.9	17.8	
150.0	46961.	-62.3			232.0	25.8	
125.0	50603.	-68.3			245.8	27.8	
100.0	54969.	-72.4			253.7	12.9	
80.0	59248.	-73.8			326.0	1.3	
70.0	61852.	-66.6			20.2	4.7	
60.0	64921.	-63.9			32.1	14.1	
50.0	68626.	-59.1					

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC COORDINATES
33-81920 LAT DEG
106-66501 LON DEG

SIGNIFICANT LEVEL DATA
1690040051
STALLION

TABLE 7.

STATION ALTITUDE 4940.00 FEET MSL
17 JUNE 80
ASCENSION NO. 52 0830 HRS MDT

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
852.0	24.6	13.5	50.0
850.0	23.9	12.5	49.0
832.2	20.9	10.1	50.0
819.4	23.9	7.1	34.0
754.8	20.2	-5.6	17.0
700.0	15.0	-9.1	18.0
618.2	6.9	-12.2	24.0
547.0	-2.1	-12.1	46.0
506.4	-7.9	-13.3	65.0
500.0	-8.7	-13.0	71.0
485.4	-10.9	-12.8	86.0
470.0	-12.8	-14.1	90.0
454.6	-14.9	-16.2	90.0
447.2	-16.3	-19.8	74.0
444.9	-15.8	-22.9	54.0
439.6	-14.6	-26.9	34.0
432.2	-14.1	-32.6	19.0
400.0	-18.1	-36.0	19.0
342.4	-27.0	-42.6	21.0
300.0	-34.8	-48.1	24.0
296.8	-35.3	-48.9	23.0
250.0	-44.4		
231.2	-48.4		
200.0	-51.2		
165.4	-59.9		
150.0	-62.9		
133.8	-66.9		
116.2	-67.2		
100.0	-72.1		
91.2	-73.3		
74.6	-69.0		
70.0	-64.9		
50.0	-59.9		
30.0	-51.5		
20.0	-46.4		
16.4	-45.8		
12.2	-43.7		

STATION ALTITUDE 9940.00 FEET MSL
17 JUNE 80 0830 HRS MDT
ASCENSION NO. 52

UPPER AIR DATA
1690040051
STALLION

GEODETTIC COORDINATES
33.81920 LAT DEG
106.66501 LON DEG

TABLE 8.

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
4940.0	852.0	24.6	13.5	50.0	990.0	674.6	50.0	9.9	1.000287
5000.0	850.2	24.8	12.6	49.1	990.3	673.7	49.8	9.8	1.000284
5500.0	835.5	21.5	10.6	49.8	982.2	670.6	48.4	9.3	1.000275
6000.0	821.8	23.5	7.6	36.0	959.4	672.6	40.7	8.8	1.000259
6500.0	806.7	23.2	5.0	30.8	944.4	672.0	44.9	8.2	1.000248
7000.0	792.7	22.4	2.6	27.1	931.0	670.9	38.1	7.3	1.000239
7500.0	778.9	21.6	-1.1	23.5	917.8	669.8	23.0	6.3	1.000231
8000.0	765.4	20.8	-3.0	19.9	904.8	668.8	7.2	4.5	1.000223
8500.0	752.0	19.9	-5.8	17.0	892.0	667.6	352.4	2.7	1.000216
9000.0	738.7	18.7	-6.6	17.3	880.0	666.2	291.0	3.6	1.000213
9500.0	725.6	17.5	-7.4	17.5	868.2	664.8	275.7	5.7	1.000209
10000.0	712.8	16.5	-8.2	17.8	856.6	663.3	276.8	8.2	1.000206
10500.0	700.2	15.0	-9.1	18.0	845.1	661.9	279.4	10.8	1.000202
11000.0	687.5	13.8	-9.5	18.9	833.2	660.5	277.1	12.5	1.000199
11500.0	675.1	12.6	-9.9	19.7	821.6	659.1	274.3	14.0	1.000196
12000.0	662.9	11.4	-10.3	20.6	810.1	657.7	263.5	14.0	1.000194
12500.0	650.9	10.3	-10.8	21.5	798.8	656.4	252.8	14.6	1.000191
13000.0	639.1	9.1	-11.3	22.4	787.7	655.0	242.0	15.7	1.000188
13500.0	627.6	7.9	-11.8	23.3	776.8	653.6	234.1	17.0	1.000185
14000.0	616.1	6.7	-12.1	24.6	766.0	652.1	229.7	18.0	1.000182
14500.0	604.7	5.3	-11.7	28.0	755.4	650.6	227.9	18.7	1.000180
15000.0	593.4	3.9	-11.5	31.4	745.0	649.0	228.0	19.2	1.000178
15500.0	582.3	2.5	-11.5	34.7	734.7	647.3	231.2	20.2	1.000176
16000.0	571.5	1.1	-11.5	38.1	724.6	645.7	234.7	21.3	1.000174
16500.0	560.8	-0.3	-11.7	41.5	714.7	644.1	237.6	22.5	1.000172
17000.0	550.4	-1.6	-12.0	44.9	705.0	642.5	240.0	23.6	1.000170
17500.0	539.9	-3.1	-12.2	49.2	695.3	640.8	239.9	24.6	1.000167
18000.0	529.6	-4.5	-12.4	54.0	685.7	639.0	239.6	25.7	1.000165
18500.0	519.4	-6.0	-12.7	58.7	676.2	637.3	238.5	27.4	1.000163
19000.0	509.5	-7.4	-13.2	63.5	666.9	635.6	238.0	28.9	1.000160
19500.0	499.7	-8.8	-13.0	71.3	657.2	634.0	239.0	30.4	1.000159
20000.0	489.9	-10.2	-12.8	81.3	648.0	632.3	240.7	31.6	1.000157
20500.0	480.3	-11.5	-13.2	87.3	638.5	630.7	243.8	32.6	1.000154
21000.0	470.9	-12.7	-14.0	89.8	628.8	629.3	246.7	33.3	1.000152
21500.0	461.6	-13.9	-15.2	90.0	619.4	627.7	249.5	33.4	1.000149
22000.0	452.4	-15.3	-17.2	85.4	610.5	626.0	252.0	32.8	1.000145
22500.0	443.4	-15.9	-23.8	48.5	599.0	625.6	254.5	30.4	1.000139
23000.0	434.6	-14.5	-30.4	23.9	584.6	627.0	257.2	28.1	1.000133
23500.0	426.8	-14.9	-33.2	19.0	574.3	626.2	260.0	26.1	1.000130
24000.0	417.4	-15.9	-34.1	19.0	565.1	624.9	262.5	24.9	1.000128

STATION ALTITUDE 4940.00 FEET MSL
17 JUNE 80
ASCENSION NO. 52 0830 HRS MDT

UPPER AIR DATA
1690040051
STALLION

GEODETIC COORDINATES
33.81920 LAT DEG
106.60501 LON DEG

TABLE 8 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
24500.0	409.1	-16.9	19.0	556.1	623.7	263.6	25.2	1.000126
25000.0	400.9	-18.0	19.0	547.2	622.4	261.9	26.0	1.000124
25500.0	392.7	-19.1	19.2	538.5	621.0	258.2	27.2	1.000121
26000.0	384.7	-20.3	19.5	530.0	619.5	255.1	28.3	1.000119
26500.0	376.8	-21.5	19.8	521.6	618.1	252.3	29.4	1.000117
27000.0	369.1	-22.7	20.0	513.3	616.6	250.3	30.2	1.000116
27500.0	361.5	-23.9	20.3	505.2	615.1	248.4	31.1	1.000114
28000.0	354.2	-25.1	20.6	497.2	613.7	246.5	31.9	1.000112
28500.0	346.9	-26.3	20.8	489.4	612.2	245.4	32.6	1.000110
29000.0	339.7	-27.5	21.2	481.6	610.7	243.3	32.9	1.000108
29500.0	332.5	-28.7	21.7	473.8	609.1	241.2	33.9	1.000106
30000.0	325.4	-30.0	22.2	466.2	607.5	247.9	35.6	1.000105
30500.0	318.6	-31.3	22.6	458.7	605.9	248.6	37.6	1.000103
31000.0	311.8	-32.5	23.1	451.4	604.4	249.3	39.9	1.000101
31500.0	305.2	-33.8	23.6	444.1	602.8	249.7	39.7	1.000099
32000.0	298.7	-35.0	23.6	436.9	601.2	250.1	38.3	1.000098
32500.0	292.2	-36.3	20.9**	429.4	599.8	250.9	36.2	1.000096
33000.0	285.8	-37.3	17.9**	422.1	598.3	252.2	33.6	1.000094
33500.0	279.5	-38.5	14.9**	414.9	596.8	253.3	34.1	1.000093
34000.0	273.4	-39.7	12.0**	407.8	595.3	254.3	35.7	1.000091
34500.0	267.3	-40.8	9.0**	400.9	593.8	253.9	37.9	1.000089
35000.0	261.5	-42.0	6.0**	394.1	592.3	253.5	40.2	1.000088
35500.0	255.7	-43.2	3.0**	387.4	590.8	253.6	41.3	1.000086
36000.0	250.1	-44.4	.1**	380.8	589.2	253.7	42.3	1.000085
36500.0	244.5	-45.5		374.2	587.7	255.0	42.8	1.000083
37000.0	238.9	-46.7		367.6	586.2	250.5	43.2	1.000082
37500.0	233.5	-47.9		361.2	584.7	257.6	42.7	1.000080
38000.0	228.2	-48.7		354.1	583.7	258.5	41.8	1.000079
38500.0	223.0	-49.1		346.7	583.1	258.5	40.3	1.000077
39000.0	217.9	-49.5		339.4	582.6	258.2	38.5	1.000076
39500.0	212.9	-50.0		332.3	582.0	257.8	36.1	1.000074
40000.0	208.0	-50.4		325.3	581.4	257.3	33.4	1.000072
40500.0	203.2	-50.9		318.5	580.8	255.4	30.0	1.000071
41000.0	198.5	-51.5		312.1	579.9	251.9	26.1	1.000069
41500.0	193.9	-52.6		306.2	578.5	248.1	23.1	1.000068
42000.0	189.3	-53.7		300.5	577.1	244.5	21.3	1.000067
42500.0	184.8	-54.8		294.9	575.7	242.4	20.5	1.000066
43000.0	180.5	-55.9		289.4	574.2	243.7	21.3	1.000064
43500.0	176.2	-57.0		284.0	572.8	245.2	22.3	1.000063
44000.0	172.1	-58.1		278.8	571.3	248.4	23.8	1.000062

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4940.00 FEET MSL
17 JUNE 80
ASCENSION NO. 51

UPPER AIR DATA
1690040051
STALLION

GEODETIC COORDINATES
33.81920 LAT DEG
106.66501 LON DEG

TABLE 8 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
44500.0	168.1	-59.2		273.6	569.9	251.2	25.4	1.000061
45000.0	164.1	-60.1		268.3	568.6	254.8	26.1	1.000060
45500.0	160.1	-60.9		262.8	567.6	258.3	27.0	1.000059
46000.0	156.2	-61.7		257.3	566.6	259.0	26.9	1.000057
46500.0	152.5	-62.4		252.0	565.6	259.3	26.6	1.000056
47000.0	148.8	-63.2		246.8	564.5	260.2	26.3	1.000055
47500.0	145.1	-64.1		241.8	563.3	261.6	26.0	1.000054
48000.0	141.5	-64.9		236.8	562.2	264.1	26.0	1.000053
48500.0	138.1	-65.8		232.0	561.0	267.4	26.3	1.000052
49000.0	134.7	-66.7		227.2	559.8	269.5	26.8	1.000051
49500.0	131.3	-66.9		221.9	559.4	270.6	27.3	1.000049
50000.0	128.1	-67.0		216.4	559.4	272.4	26.1	1.000048
50500.0	124.9	-67.0		211.1	559.3	275.2	23.4	1.000047
51000.0	121.8	-67.1		205.9	559.2	280.0	18.9	1.000046
51500.0	118.8	-67.2		200.9	559.1	292.5	12.1	1.000045
52000.0	115.8	-67.3		196.0	558.9	315.0	7.2	1.000044
52500.0	112.9	-68.1		191.9	557.8	304.4	4.0	1.000043
53000.0	110.1	-69.0		187.8	556.7	249.4	1.8	1.000042
53500.0	107.3	-69.8		183.9	555.6	221.4	5.7	1.000041
54000.0	104.6	-70.6		180.0	554.4	216.6	9.9	1.000040
54500.0	102.0	-71.5		176.2	553.3	216.3	9.4	1.000039
55000.0	99.4	-72.2		172.4	552.3	216.1	8.6	1.000038
55500.0	96.9	-72.5		168.3	551.8	223.1	8.7	1.000037
56000.0	94.4	-72.8		164.2	551.4	231.0	9.0	1.000037
56500.0	92.0	-73.2		160.3	550.9	238.9	7.6	1.000036
57000.0	89.7	-72.9		156.1	551.2	251.6	5.8	1.000035
57500.0	87.4	-72.4		151.7	552.0	271.7	3.9	1.000034
58000.0	85.2	-71.8		147.5	552.7	332.7	2.0	1.000033
58500.0	83.1	-71.3		143.4	553.5	30.4	4.0	1.000032
59000.0	81.0	-70.8		139.4	554.2	41.8	4.9	1.000031
59500.0	78.9	-70.2		135.5	555.0	49.6	5.6	1.000030
60000.0	76.9	-69.7		131.7	555.7	44.5	5.1	1.000029
60500.0	75.0	-69.1		128.0	556.5	24.6	4.1	1.000029
61000.0	73.1	-67.7		124.0	558.4	13.2	4.1	1.000028
61500.0	71.3	-66.1		120.0	560.6	19.6	4.8	1.000027
62000.0	69.6	-64.8		116.3	562.3	32.5	6.1	1.000026
62500.0	67.9	-64.4		113.3	562.8	52.4	9.8	1.000025
63000.0	66.2	-64.1		110.3	563.3	60.9	14.1	1.000025
63500.0	64.6	-63.7		107.5	563.8	65.6	16.3	1.000024
64000.0	63.1	-63.3		104.7	564.3	69.2	18.6	1.000023

STATION ALTITUDE 4940.00 FEET MSL
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UPPER AIR DATA
1690040051
STALLION

GEODETTIC COORDINATES
33.81920 LAT DEG
106.66501 LON DEG

TABLE 8 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
64500.0	61.5	-63.0		102.0	564.8	73.7	19.5	1.000023
65000.0	60.8	-62.6		99.3	565.3	79.7	19.2	1.000022
65500.0	59.6	-62.3		96.8	565.8	85.8	19.1	1.000022
66000.0	57.2	-61.9		94.3	566.2	92.2	18.7	1.000021
66500.0	55.8	-61.5		91.8	566.7	98.8	18.6	1.000020
67000.0	54.4	-61.2		89.4	567.2	104.6	18.6	1.000020
67500.0	53.1	-60.8		87.1	567.7	109.8	18.7	1.000019
68000.0	51.8	-60.4		84.9	568.2	115.2	18.9	1.000019
68500.0	50.6	-60.1		82.7	568.7	121.3	18.9	1.000018
69000.0	49.4	-59.7		80.6	569.2	127.3	19.2	1.000018
69500.0	48.2	-59.3		78.5	569.7	127.4	17.8	1.000017
70000.0	47.1	-58.9		76.5	570.2	125.2	15.8	1.000017
70500.0	46.0	-58.5		74.6	570.7	121.3	13.4	1.000017
71000.0	44.9	-58.1		72.7	571.3	110.2	9.7	1.000016
71500.0	43.8	-57.7		70.9	571.8	88.0	6.8	1.000016
72000.0	42.8	-57.3		69.1	572.3	70.0	6.2	1.000015
72500.0	41.8	-57.0		67.4	572.8	57.5	6.4	1.000015
73000.0	40.8	-56.6		65.7	573.3	47.7	6.9	1.000015
73500.0	39.9	-56.2		64.0	573.9	60.1	9.2	1.000014
74000.0	38.9	-55.8		62.4	574.4	67.4	11.8	1.000014
74500.0	38.0	-55.4		60.8	574.9	71.7	13.9	1.000014
75000.0	37.1	-55.0		59.3	575.4	74.3	14.3	1.000013
75500.0	36.2	-54.6		57.8	575.9	70.7	14.8	1.000013
76000.0	35.4	-54.2		56.3	576.4	78.2	14.6	1.000013
76500.0	34.6	-53.8		54.9	576.9	79.2	13.5	1.000012
77000.0	33.8	-53.4		53.5	577.5	80.2	12.5	1.000012
77500.0	33.0	-53.0		52.2	578.0	80.3	12.9	1.000012
78000.0	32.2	-52.7		50.9	578.5	80.1	13.7	1.000011
78500.0	31.4	-52.3		49.6	579.0	79.8	14.6	1.000011
79000.0	30.7	-51.9		48.3	579.5	80.1	14.3	1.000011
79500.0	30.0	-51.5		47.1	580.0	80.3	13.9	1.000010
80000.0	29.3	-51.2		46.0	580.4	80.5	13.6	1.000010
80500.0	28.6	-50.9		44.9	580.8	80.8	14.2	1.000010
81000.0	28.0	-50.6		43.8	581.1	81.0	14.9	1.000010
81500.0	27.3	-50.3		42.7	581.5	81.0	15.6	1.000010
82000.0	26.7	-50.0		41.7	581.9	79.3	17.0	1.000009
82500.0	26.1	-49.8		40.7	582.3	77.9	18.4	1.000009
83000.0	25.5	-49.5		39.7	582.7	76.9	19.7	1.000009
83500.0	24.9	-49.2		38.8	583.0	76.9	20.0	1.000009
84000.0	24.4	-48.9		37.9	583.4	77.0	20.2	1.000008

STATION ALTITUDE 4940.00 FEET MSL
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UPPER AIR DATA
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GEODETIC COORDINATES
33.81920 LAT DEG
106.66501 LON DEG

TABLE 8 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
84500.0	23.8	-48.6		36.9	583.8	77.0	20.8	1.000008
85000.0	23.3	-48.3		36.1	584.2	77.2	22.9	1.000008
85500.0	22.7	-48.0		35.2	584.5	77.3	25.1	1.000008
86000.0	22.2	-47.7		34.3	584.9	77.5	26.8	1.000008
86500.0	21.7	-47.4		33.5	585.3	78.3	26.8	1.000007
87000.0	21.2	-47.1		32.7	585.7	79.2	26.7	1.000007
87500.0	20.7	-46.9		31.9	586.0	80.3	26.2	1.000007
88000.0	20.3	-46.6		31.2	586.4	82.7	24.4	1.000007
88500.0	19.8	-46.4		30.4	586.7	85.5	22.6	1.000007
89000.0	19.4	-46.3		29.7	586.8	88.6	21.2	1.000007
89500.0	18.9	-46.2		29.1	586.9	91.8	21.0	1.000006
90000.0	18.5	-46.2		28.4	586.9	95.0	20.8	1.000006
90500.0	18.1	-46.1		27.8	587.0	98.2	20.7	1.000006
91000.0	17.7	-46.0		27.1	587.1	99.7	21.0	1.000006
91500.0	17.3	-46.0		26.5	587.2	100.7	21.4	1.000006
92000.0	16.9	-45.9		25.9	587.3	101.7	21.8	1.000006
92500.0	16.5	-45.8		25.3	587.4	101.9	21.8	1.000006
93000.0	16.2	-45.7		24.7	587.6	100.5	21.2	1.000005
93500.0	15.8	-45.5		24.2	587.8	99.0	20.6	1.000005
94000.0	15.4	-45.4		23.6	588.0	97.5	20.1	1.000005
94500.0	15.1	-45.2		23.1	588.2	96.9	20.0	1.000005
95000.0	14.8	-45.1		22.5	588.4	96.5	20.0	1.000005
95500.0	14.4	-44.9		22.0	588.6	96.0	20.0	1.000005
96000.0	14.1	-44.7		21.5	588.8	95.6	20.4	1.000005
96500.0	13.8	-44.6		21.0	589.0	95.2	21.2	1.000005
97000.0	13.5	-44.4		20.5	589.2	94.8	22.0	1.000005
97500.0	13.2	-44.3		20.1	589.4			1.000004
98000.0	12.9	-44.1		19.6	589.6			1.000004
98500.0	12.6	-43.9		19.2	589.8			1.000004
99000.0	12.3	-43.8		18.7	590.0			1.000004

STATION ALTITUDE 4940.00 FEET MSL
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MANDATORY LEVELS
1690040051
STALLION

TABLE 9.

GEODETIC COORDINATES
33.81920 LAT DEG
106.60501 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5005.	23.9	12.5	49.	49.8	9.8
800.0	6738.	22.8	3.9	29.	43.9	8.0
750.0	8569.	19.8	-5.9	17.	324.1	2.6
700.0	10499.	15.0	-9.1	18.	279.4	10.8
650.0	12537.	10.2	-10.8	22.	251.8	14.6
600.0	14699.	4.7	-11.6	29.	228.0	18.9
550.0	17000.	-1.7	-12.0	45.	240.0	23.6
500.0	19457.	-8.7	-13.0	71.	239.0	30.3
450.0	22103.	-15.8	-18.4	80.	252.6	32.2
400.0	25018.	-18.1	-36.0	19.	261.5	26.1
350.0	28242.	-25.7	-41.6	21.	245.4	32.4
300.0	31841.	-34.8	-48.1	24.	250.0	38.6
250.0	35934.	-44.4			253.7	42.3
200.0	40749.	-51.2			253.2	27.4
175.0	43558.	-57.3			246.2	22.8
150.0	46710.	-62.9			259.7	26.4
125.0	50345.	-67.0			275.0	23.6
100.0	54726.	-72.1			216.2	8.9
80.0	59035.	-70.5			45.2	5.1
70.0	61662.	-64.9			23.0	5.3
60.0	64764.	-62.6			79.3	19.2
50.0	68477.	-59.9			123.7	19.0
40.0	73089.	-56.2			57.0	8.5
30.0	79151.	-51.5			80.3	13.9
25.0	83055.	-49.2			76.9	19.9
20.0	87887.	-46.4			84.1	23.5
15.0	94170.	-45.2			96.8	20.0

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

**DAT
FILM**